

PERMANENT SEEDING NOTES

Apply to graded or cleared area not subject to immediate further disturbance where a permanent long—lived vegetative cover is needed.

Seedbed Preparation: Loosen upper three inches of soil be raking, discing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: In lieu of soil test recommendations, use on the following schedules.

- 1) Preferred Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf) before seeding Harrow or disc into upper three inches of soil. At time of seeding, apply 400 lbs per acre 30-0-0 ureaform fertilizer (9 lbs/1000 sf).
- 2) Acceptable Apply 2 tons per acre dolomitic limestone (92 lbs/1000 sf) and 1000 lbs per acre 10-10-10 fertilizer (23 lbs/1000 sf) before seeding. Harrow or disc into upper three inches of soil.

Seeding: For the periods March 1 through April 30 and August 1 through October 15, seed with 60 lbs per acre (1.4 lbs/1000 sf) of Kentucky 31 Tall Fescue. For the period May 1 through July 31, seed with 60 lbs Kentucky 31 Tall Fescue per acre and 2 lbs per acre (0.05 lbs/1000 sf) of Weeping Lovegrass. During the period of October 16 through February 28, protect site by: Option 1) 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring. Option 2) use sod. Option 3) seed with 60 lbs/acre Kentucky 31 Tall Fescue and mulch with 2 tons/acre well anchored straw.

Mulching: Apply 1-1/12 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gallons per acre (8 gal/1000 sf) for anchoring.

Maintenance: Inspect all seeded areas and make needed repairs, replacements and reseedings.

SEDIMENT CONTROL NOTES

- 1. A minimum of 48 hours notice must be given to the Howard County Department of Inspections and Permits, Sediment Control Division prior to the start of any construction (313-1855).
- All vegetative and structural practices are to be installed accordingly to the provisions of this plan and are to be in conformance with the most current "Maryland Standards and Specifications for Soil Erosion and Sediment Control" and revisions thereto.
- 3. Following initial soil disturbances or redisturbance, permanent or temporary stabilization shall be completed within: a) 7 calendar days for all perimeter sediment control structures, dikes, perimeter slopes and all slopes greater than 3:1, b) 14 calendar days as to all other disturbed or graded areas on the project site.
- 4. All sediment traps/basins shown must be fenced and warning signs posted around their perimeter in accordance with Vol. 1, Chapter 12, of the "Howard County Design Manual, Storm Drainage"
- 5. All disturbed areas must be stabilized within the time period specified above in accordance with the "1991 Maryland Standards and Specifications for Soil Erosion and Sediment Control" for Permanent Seedings (Sec. 51) Sod (Sec. 54), Temporary Seeding (Sec. 50) and Mulching (Sec. 52). Temporary stabilization with mulch alone can only be done when recommended seeding dates do not allow for proper germination and establishment of grasses.
- 6. All sediment control structures are to remain in place and are to be maintained in operative condition until permission for their removal has been obtained from the Howard County Sediment Control Inspector.
- 7. Site Analysis: Total Area of Site: 10.27 acres Area to be Disturbed: **6.57** acre Area to be roofed or paved:
- 1.58 acre Area to be vegetatively stabilized: 7717 cy. Total Cut: Total Fill: 6919 cy. Offsite Waste/Borrow Area Location :

Howard County DPW Sediment Control Inspector.

- 8. Any sediment control practice which is disturbed by grading activity for placement of utilities must be repaired on the same day of disturbance. Additional sediment controls must be provided, if deemed necessary by the
- 10. On all sites with disturbed areas in excess of 2 acres, approval of the inspection agency shall be requested upon completion of installation of perimeter erosion and sediment controls, but before proceeding with any other earth disturbance or grading. Other building or grading inspection approvals may not be authorized until this initial approval by the inspection agency is made.
- 11. Trenches for the construction of utilities is limited to three pipe lengths or that which can be back filled and stabilized within one working day, whichever is shorter.
- 12. Quantities and estimates shown are for sediment control purposes only. Contractor shall prepare his/her own quantity estimates to his/her satisfaction.
- * It is the responsibility of the contractor to identify the spoil/borrow site and notify and gain approval from the sediment control inspector of the site and it's grading permit number at the time of construction.

SEQUENCE OF CONSTRUCTION

Notify Sediment Control Division 48 hours prior to start of construction.

- Obtain grading permit
- 2. Inspect existing sediment and erosion control devices and repair or re-install them if required.
- Install new sediment and erosion control devices and stabilize. Install tree protection fence as indicated on plan.
- Excavate for foundations, rough grade and temporarily stabilize. Except Lots 1, and 19-20, delay construction of these lots until the site is stabilized and the earth dike and trap are removed with the approval of the Howard County Sediment Control Inspector. Note: silt fence may be required along the perimeter of each house construction
- 5. Construct house and driveway.
- 6. Final grade and stabilize in accordance with standards and specifications.
- 7. Upon approval of the Howard County sediment control inspector, remove sediment and erosion control devices and stabilize.
- *INDICATES SINGLE HOUSE CONSTRUCTION.

HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING

TEMPORARY SEEDING NOTES

Apply to graded or cleared areas likely to be redisturbed where a short-term vegetative cover is needed.

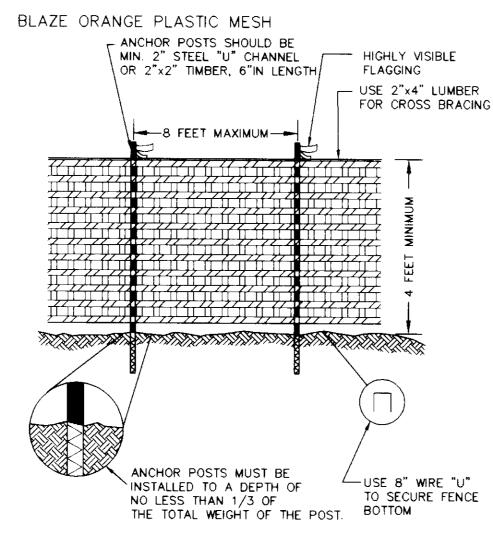
Seedbed Preparation: Loosen upper three inches of soil by raking, discing or other acceptable means before seeding. (If not previously loosened)

Soil Amendments: Apply 600 lbs per acre 10-10-10 fertilizer (14 lbs/1000 sf).

Seeding: For periods March 1 through April 30 and from August 15 through November 15, seed with 2-1/2 bushei per acre of annual rye (3.2 lbs/1000 sf). For the period May 1 through August 14, seed with 3 lbs per acre of Weeping Lovegrass (0.07 lbs/1000 sf). For the period November 16 through February 28, protect site by applying 2 tons per acre of well anchored straw mulch and seed as soon as possible in the spring, or use sod.

Mulching: Apply 1-1/2 to 2 tons per acre (70 to 90 lbs/1000 sf) of unrotted small grain straw immediately after seeding. Anchor mulch immediately after application using mulch anchoring tool or 218 gallons per acre (5 gal/1000 sf) of emulsified asphalt on flat areas. On slopes 8 feet or higher, use 348 gailons per acre (8 gal/1000 sf) for anchoring.

Refer to the 1983 Maryland Standards and Specifications for Soil Erosion and Sediment Control for rate and methods not covered.



- 1. FOREST PROTECTION DEVICE ONLY.
- 2. RETENTION AREA WILL BE SET AS PART OF THE REVIEW PROCESS. S. BOUNDARIES OF RETENTION AREA SHOULD BE STAKED AND FLAGGED PRIOR TO INSTALLING DEVICES.
- 4. AVOID ROOT DAMAGE WHEN PLACING ANCHOR POSTS.
- DEVICE SHOULD BE PROPERLY MAINTAINED DURING CONSTRUCTION 6. PROTECTIVE SIGNAGE IS ALSO REQUIRED.

TEMPORARY TREE PROTECTION FENCE

NOT TO SCALE

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION EDGE OF ROADWAY OR TOP OF EARTH DIKE STANDARD SYMBO SWALE INLET PROTECTION DETAIL 2"x4" WEIR ----

DETAIL 1 - EARTH DIKE

FLOW CHANNEL STABILIZATION

CONSTRUCTION SPECIFICATIONS

Seed and cover with Erosion Control Matting or line with sod.

4" 7" stone or recycled concrete equivalent pressed into the soil 7" minimum

All temporary earth dikes shall have uninterrupted positive grade to an outlet. Spot elevations may be necessary for grades less than 1%.

Runoff diverted from a disturbed area shall be conveyed to a sediment trapping

Runoff diverted from an undisturbed area shall outlet directly into an undisturbed, stabilized area at a non-erosive velocity.

4. All trees, brush, stumps, obstructions, and other objectional material shall be removed and disposed of so as not to interfere with the proper functioning of the dike.

The dike shall be excavated or shaped to line, grade and cross section as required to meet the criteria specified herein and be free of bank projections or other irregularities which will impede normal flow.

All earth removed and not needed for construction shall be placed so that it will
not interfere with the functioning of the dike.

. Inspection and maintenance must be provided periodically and after each rain event

CROSS SECTION

POSITIVE DRAINAGE - GRADE SUFFICIENT TO DRAIN

A

PLAN YIEW

. Fill shall be compacted by earth moving equipment.

U.S. DEPARTMENT OF AGRICULTURE PAGE

Seed and cover with straw mulch.

CUT OR FILL SLOPE

CUT OR FILL, SLOPE

NOT TO SCALE

EXCAVATE TO PROVIDE

REQUIRED FLOW WID TH

AT DESIGN FLOW DEPT

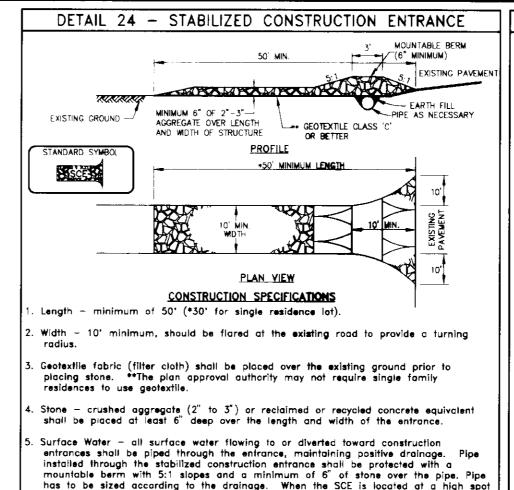
b-DIKE WIDTH c-FLOW WIDTH

d FLOW DEPTH 12"

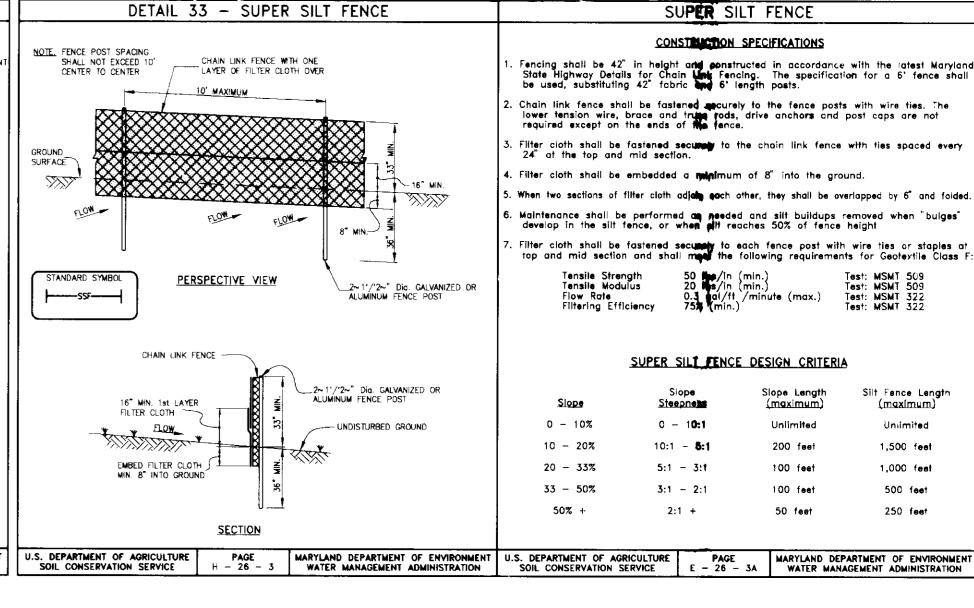
STANDARD SYMBOL

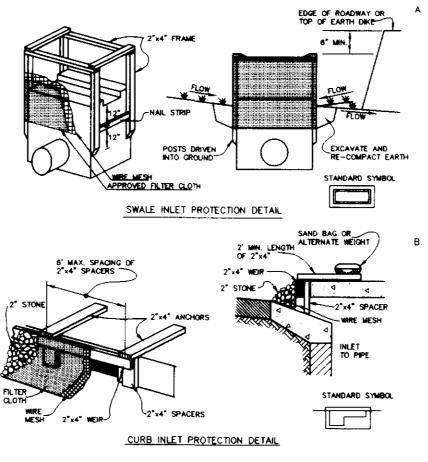
A-2 B-3

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has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance. U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE F - 17 - 3 MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

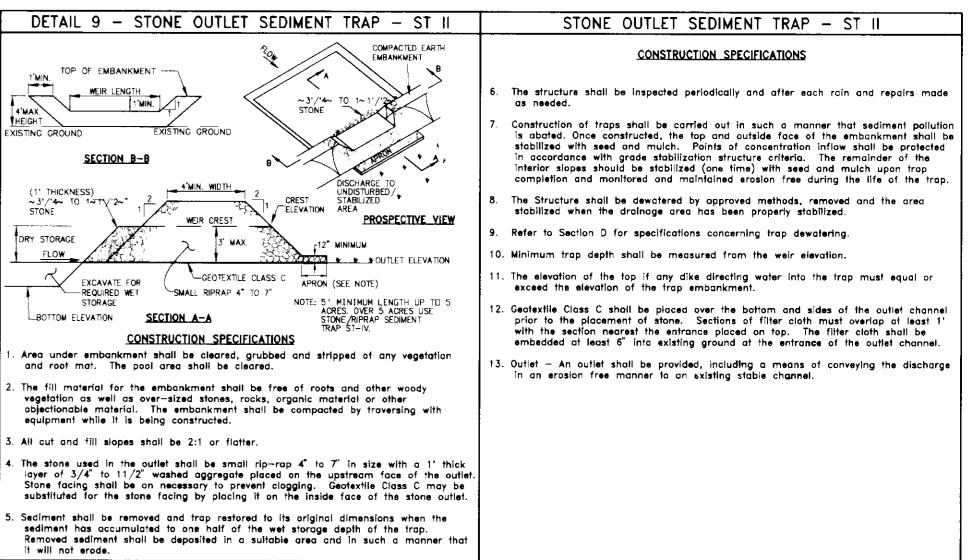




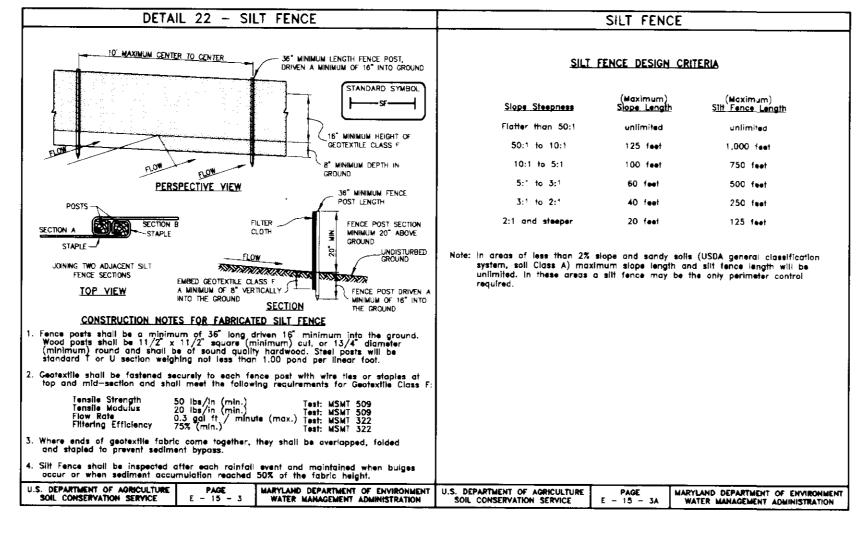
CONSTRUCTION SPECIFICATIONS FOR IPD-1 A. A swale, ditchline or yard inlet protection

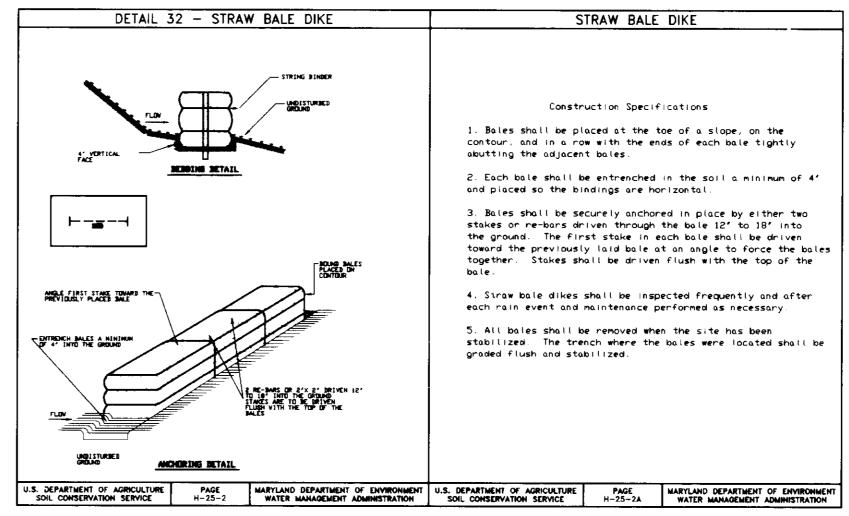
- 1. Excavate completely around inlet to a depth of 18" below notch
- 2. Drive 2 x 4 post 1' into ground at four corners of inlet. Place nail strips between posts on ends of inlet. Assemble top portion of 2 \times 4 frame using overlap joint shown. Top of frame (weir) must be 6" below edge of roadway adjacent to inlet.
- 3. Stretch wire mesh tightly around frame and fasten securely.
- 4. Stretch filter cloth tightly over wire mesh, the cloth must extend from top of frome to 18" below inlet notch elev. fasten securely to frame. Ends must meet at post, be overlapped and folded, then fastened down. 5. Backfill around inlet in compacted 6" layers until layer of earth is even with notch elevation on ends and top elevation on sides
- If the inlet is not in a low point, construct a compacted earth dik in the ditchline below it. The top of this dike is to be at least 6 higher than the top of frame (wei 7. This structure must be inspected frequently and the filter fabric
- . Attach a continuous piece of wire mesh (30" min. width by throat length plus 4") to the 2"x4" weir (measuring throat length plus 2") as shown on the standard drawing.
- Place a piece of approved filter cloth (40-85 sieve) of the same
- dimensions as the wire mesh over the wire mesh and securely attach to the 2"x4" weir Securely nail the 2"x4" weir to 9" long vertical spacers to be located between the weir and inlet face (max. 6' apart).
- 4. Place the assembly against the inlet throat and nail (min. 2' lengths of 2"x4" to the top of the weir spacer locations. These 2"x4" anchors shall extend across the inlet top and be held in
- place by sandbags or alternate weight The assembly shall be placed so that the end spacers are a minimum beyond both ends of the throat opening
- 6. From the wire mesh and filter cloth to the concrete gutter and against the face of curb on both sides of the inlet. Place clean 2 stone over the wire mesh and filter fabric in such a manner as to prevent water from entering the inlet under or ground the filter cloth
- cloth and stone replaced when clogged with sediment
- 8. Assure that storm flow dose not bypass inlet by installing temporary earth or asphalt dikes directing flow into inlet.

INLET PROTECTION DETAIL









ENGINEER'S CERTIFICATE

MARYLAND DEPARTMENT OF ENVIRONMENT U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

I hereby certify that this plan for erosion and sediment control represents a practical and workable plan based on my personal knowledge of the site conditions and that it was prepared in accordance with the requirements of

the Howard County Soil Conservation District.

MX James

BUILDER'S CERTIFICATE

1/We certify that all development and construction will be done in accordance with this plan of development and plan for erosion and sediment control and that all responsible personnel involved in the construction of this project will have a certificate of attendance at a Department of the Environment approved training program for the control of sediment and erosion before beginning the project. I also authorize periodic onsite inspection by the Howard County Soil Conservation District or their authorized agents, as are deemed necessary.

I 1/31/97 INCLUDE LOT 10 IN PLAN NO DATE

TSA GROUP, INC.

planning · architecture · engineering · surveying 480 Baltimore National Pike • Ellicott City, Maryland 21043 • (410) 485-6106

Silt Fence Length

(maximum)

1,500 feet

1,000 feet

500 feet

250 fee

PERMIT INFORMATION CHART

NOT TO SCALE

SUBDIVISION			HER H	OMESTE	AD			DEVELOPER:
SECT./AR	SECT./AREA		ARCEL #	LIBER & FOLIO L.144 F. 225		PREVIOUS FILE: FDP 146-A-II P-94-17 F-94-117,S-94-11		SDC GROUP, INC P.O. BOX 417 ELLICOTT CITY, N (410)465-4244
PLAT No.	BLOCK	K No.	ZONE	TAX MAP	ELE	C. DIST.	CENSUS	BUILDER:
12040-	22		R-12	36	6th		6067.02	PATRIOT HOMES P.O. BOX 1018
WATER CODE E11				SEWER CODE 5331800				COLUMBIA, MARY (410)997-5522

DC GROUP, INC. .O. BOX 417 LICOTT CITY, MARYLAND 21041 LOCATION: 410)465-4244 ATRIOT HOMES .O. BOX 1018 OLUMBIA, MARYLAND 21044

DES: MLV CHK: CAM DRN:

DASHER HOMESTEAD LOTS 1- 23 TAX MAP 36-PARCEL 69 6th ELECTION DISTRICT HOWARD COUNTY, MARYLAND

SEDIMENT CONTROL NOTES & DETAILS PROJECT NO. 0806

DRAWING $\underline{6}$ OF $\underline{6}$

SDP-96-33

SCALE: NOT TO SCALE

REVIEWED FOR HOWARD COUNTY SOIL CONSERVATION APPROVED: DISTRICT AND MEETS TECHNICAL REQUIREMENTS.

Duration

Days 2-3

Days 4-6

Days 7-10 ★

Days 11-81*

Days 82-86

Days 87-90

Day 1

APPROVED: THIS DEVELOPMENT IS APPROVED FOR FROSION AND SEDIMENT CONTROL BY THE HOWARD COUNTY SOIL CONSERVATION DISTRICT.

